TYPE LOCALITIES OF VASCULAR PLANTS FIRST DESCRIBED FROM OHIO

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Type localities are those places where biological specimens were obtained that subsequently were used as the basis for the scientific name and description of any organism when it was first described as new to science. Throughout the history of classical and descriptive biology, countless numbers of organisms, or taxa, have been named and described. Along with each new taxon, usually but not always, is recorded its original source location, or type locality. These type localities are deserving of permanent record, because they are the special places to which a biologist must return if he is to obtain living material from descendents of the original populations. A biologist may need to verify the identity and description of the taxon in the area where the original population occurred, obtain material for genetic and developmental studies, and/or acquire populational and life-history information. With the expansion of taxonomic studies into the broader realms of biosystematics and population analysis that has come into prominence within the past half century, much more importance is now accorded the type localities than in earlier times. These classic sites are significant biogeographical reference points at the international, national, and state levels. They should be spared from permanent destruction, such as the flooding of a river valley by construction of a dam on a stream or river, the building of a housing or industrial complex, the construction of a highway, or the tilling of the land for agricultural purposes. Type localities therefore may serve as criteria for evaluating areas or sites as potential nature sanctuaries, as discussed by Stuckey (1994).

Information on the type localities of plants first described from the United States is inadequately documented as a subject by itself. Although the information is recorded and scattered throughout the descriptive historical and botanical literature, it has not been brought together into accessible and usable data banks. Taxonomic monographs regularly include information on the type localities for names applied to the taxa discussed in those papers, but they deal only with small groups of species, and the organization is taxonomic rather than according to the geographic origin of the specimens. A project to record

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type localities for species within a genus was presented in a catalogue of type specimens for names in the large genus *Carex* (Cyperaceae) (Shetler et al. 1973). It included an index to the states, provinces, and countries from which the specimens were obtained. Lists of the type specimens deposited therein have been compiled for many herbaria, but these references list specimens according to the repositories rather than according to their geographic origin. "Botanical gazetteers" have been compiled for a few states, but do not deal specifically with type localities. At the state level, we are aware of published lists of type localities for only four states, viz. Illinois (Jones 1952), Iowa (Lammers 1985), New Mexico (Standley 1910), and West Virginia (Core 1936). A few smaller lists cover either a region or a specific county in the United States. Below are listed over 60 type localities for Ohio, from which a total of 197 vascular plants were first described from the state. Stuckey and Wentz (1974) have previously catalogued the type specimens from these localities that were deposited in the herbarium of The Ohio State University.

That the precise location of the original sources of many of these new taxa described from Ohio is not given is not surprising. Many of the taxa were named in the nineteenth century, when precision as to location was of little concern, since no *International Code of Botanical Nomenclature* existed and little emphasis was placed on the source location of new biological entities. In those days it was considered sufficient to record the location of a newly described plant from such broadly defined areas as the State of Ohio, the shore of Lake Erie, the Miami River valley, or the Ohio River. The last locality, of course, means from along the banks of the Ohio River or from its vicinity. The most notable example of this situation is the 112 or more taxa described between 1808 and 1840 from Ohio by Constantine Samuel Rafinesque, who listed the source localities as "Ohio," "Lake Erie," or "Ohio River." Rafinesque's 17 vascular plants named from the shore of Lake Erie[1] and nine noted as being from the Ohio River are included in the list below, although some of Rafinesque's plants may have been obtained on the Kentucky side of the river. With the exception of one name in current usage and two upon which currently used names are based, the many taxa described by Rafinesque merely as from "Ohio" are not listed here, but they can be determined from *Index Rafinesquianum* (Merrill 1949). André Michaux's taxa described from the Ohio River are also listed, but the exact locations along the river where these plants were obtained are not known. Michaux is known to have conducted some botanical exploration near the Ohio River in the vicinity

[1]Some or perhaps all of the plants Rafinesque described from the shore of Lake Erie may have been observed at Sandusky, Erie County, where he waited three days in late May 1826 for a steamboat from Detroit that took him to Buffalo. However, during the route to Buffalo he did stop briefly at such places as Cleveland and Fairport (Rafinesque 1826, pp. 6–7; 1836a, pp. 80–81). He also noted later that the shore of Lake Erie near Sandusky represented a locality of "great botanical interest" that afforded him new species of plants (Rafinesque 1836b, pp. 28–29).

of Louisville, Kentucky, and in what is now southern Illinois, as well as near the present site of Portsmouth, Ohio. Some specimens recorded by Michaux as having been obtained from the "Ohio River" or its banks are, therefore, likely from localities outside present-day Ohio.

In other situations only the nearest town was mentioned, with no specific sites or habitats given for the plant. Some sites are sufficiently well described so that their locations can be determined today. Among the best-known type localities in Ohio from which vascular plants have been described are Beaver Pond in Adams County, Cedar Bog (Cedar Swamp) in Champaign County, Cedar Point and other locations near Sandusky in Erie County, the limestone cliffs along the Scioto River north of Columbus and other sites in Franklin County, Hoffman's Prairie (Wright Brothers Prairie) east of Dayton in Greene County, Rocky Fork Creek in Highland County, Ofer Hollow in Jackson County, and Cranberry Island in Buckeye Lake in Licking County. Significant type localities that have disappeared through agricultural or industrial development include the Oxford Prairie in Erie County, the Darby Plains in Madison County, and Van Cleve's Prairie near Dayton in Montgomery County.

The general locations of the type localities listed below are shown on a map of Ohio (Fig. 1), and two additional maps show portions of the state where many type localities are concentrated in small areas (Figs. 2, 3). The localities are concentrated mostly in the Miami valley in southwestern Ohio, in Franklin and adjacent counties in central Ohio, and near Lake Erie in northern Ohio. These locations reflect the pioneer botanical exploration in Ohio, first in the Miami River valley in the early 1800s, in central Ohio mostly in the mid 1800s, and in northern Ohio primarily about 1900 and later. The more unusual habitat types represented are fens, wet prairies, and limestone cliffs. These habitats are not well represented in the states to the east of Ohio where most of the descriptive botany had been written before the early 1800s. It is understandable, therefore, that plants characteristic of these habitats that had not previously been named and described were first described from places in Ohio.

Unlike the other state lists mentioned above, which were arranged alphabetically by taxon, this list for Ohio is organized by locality, beginning with the largest unit, Ohio, followed by sections of the state including the shore of Lake Erie, the Miami River valley, and the Ohio River valley, and then alphabetically by county. Those taxa with more specific locality data are listed under each county. If two or more localities in Ohio were cited when a taxon was first described, as for example with *Valeriana ciliata* Torr. & A.Gray, all such localities are listed. All of the names based on specimens from the same type locality are listed under that locality, in alphabetical order. An index to names of taxa, by genus only, begins on page 1691.

Double asterisks denote plant names that are currently accepted as the correct names for the respective taxa. Single asterisks denote names that are no

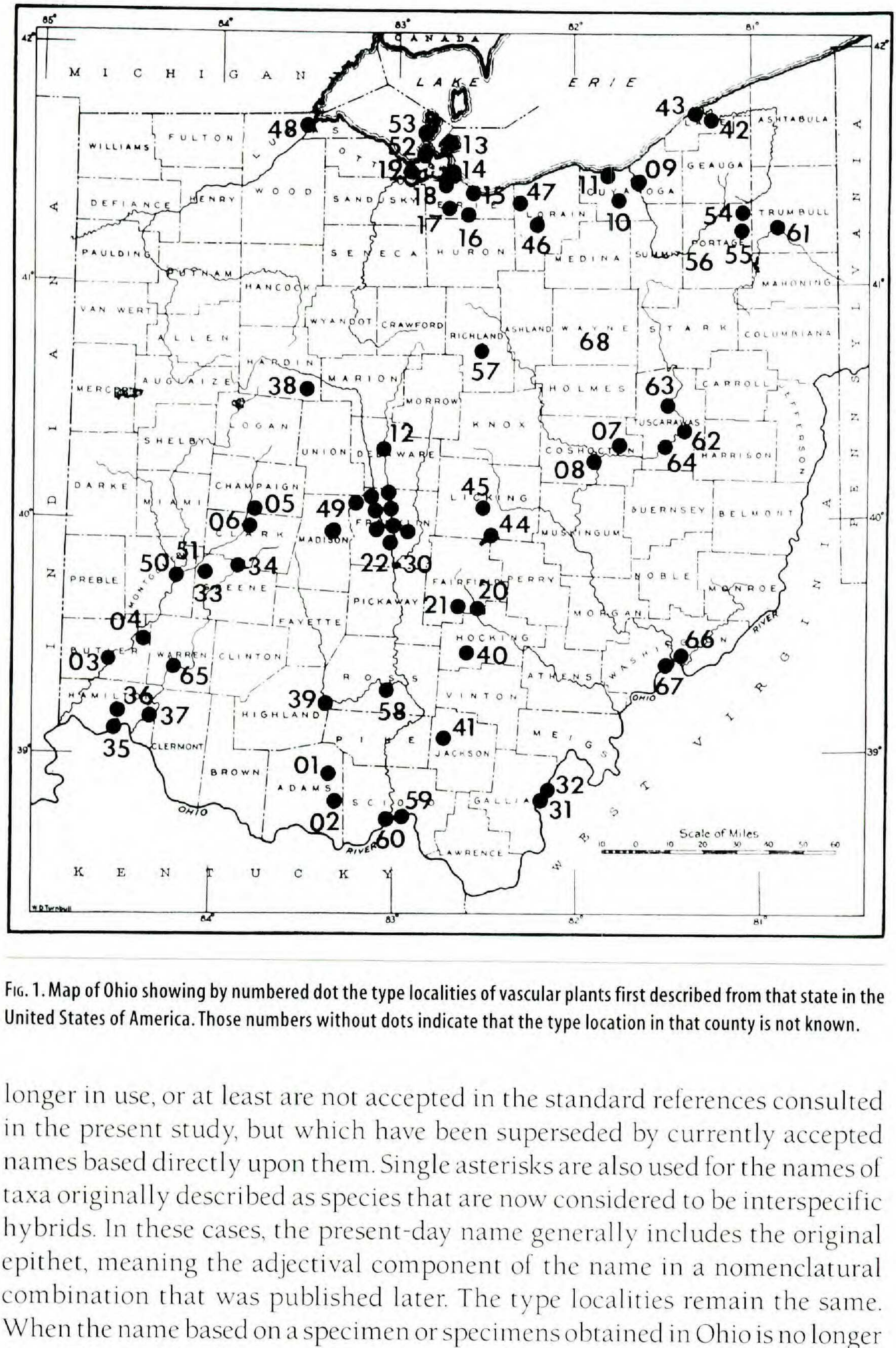

FIG. 1. Map of Ohio showing by numbered dot the type localities of vascular plants first described from that state in the United States of America. Those numbers without dots indicate that the type location in that county is not known.

longer in use, or at least are not accepted in the standard references consulted in the present study, but which have been superseded by currently accepted names based directly upon them. Single asterisks are also used for the names of taxa originally described as species that are now considered to be interspecific hybrids. In these cases, the present-day name generally includes the original epithet, meaning the adjectival component of the name in a nomenclatural combination that was published later. The type localities remain the same. When the name based on a specimen or specimens obtained in Ohio is no longer in use for a taxon, the currently accepted name is given in brackets when possible. Currently accepted names and taxonomic synonymy have been deter-

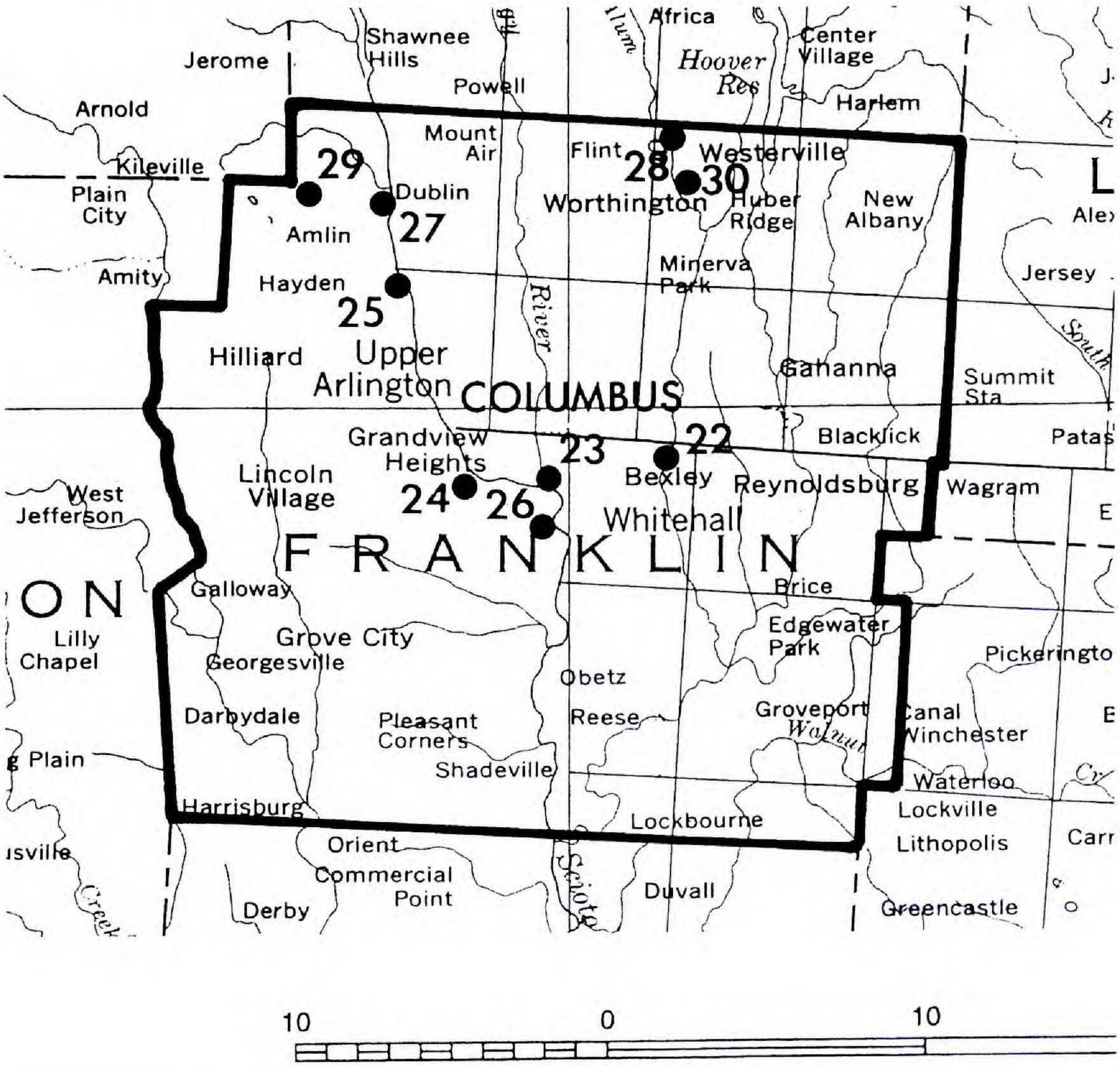

FIG. 2. Map of Franklin County, Ohio, showing by numbered dot the type localities of vascular plants first described from that county in Ohio.

mined primarily from Kartesz (1994), Kartesz and Meacham (1999), and those volumes of the *Flora of North America North of Mexico* that had been published at the time of this writing. For some old names not listed even in synonymy in these works, the modern equivalents have been determined from older floras, such as those by Britton and Brown (1913), Fernald (1950), and Gleason (1952), and from monographs, notably those by Boivin (1944) on *Thalictrum*, Davis et al. (1967–1970) on *Rubus*, Fernald (1905) on *Eriophorum*, Heiser et al. (1969) on *Helianthus*, Mackenzie (1931–1935) on *Carex*, and Palmer (1956, 1961) on *Crataegus*. When no current status or taxonomic equivalent is given for a name published at the rank of variety, it may be inferred that varieties are now gener-

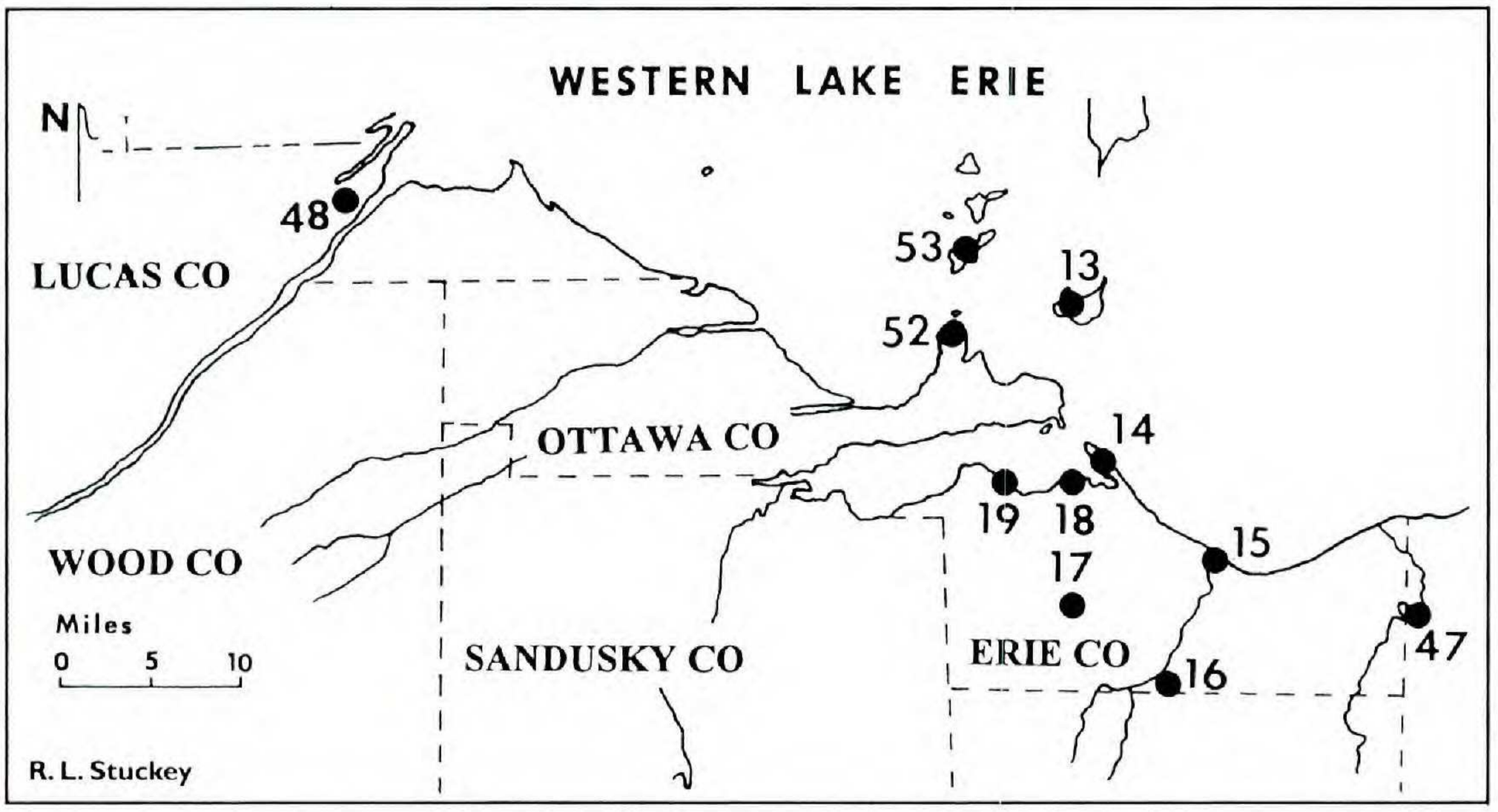

FIG. 3. Map of the Ohio counties along the shoreline of Western Lake Erie showing by numbered dot the type localities of vascular plants first described from this region of Ohio.

ally not recognized within that species. In these cases, when a synonym is given for the species, it should not be assumed that the minor variant described as a variety is equivalent to the entire species. Current status is not indicated for names published at the rank of form (Latin *forma*, abbreviation "f."), because names at this rank are not usually included in modern floras. In most cases, the original epithet applied to the form, transferred if necessary to the currently accepted name for the species, which is indicated here, would be correct for anyone wishing to use names for these individual variations.

In some cases it has not been possible to equate an older name with any currently accepted taxonomic equivalent. When the original description is deficient in detail and the original specimens no longer exist, it may not be certain to which currently recognized taxon an old name, based on plants occurring in Ohio, was applied, although taxonomic research continues to resolve some of these long-persistent questions. This situation is an especially frequent problem with plants named by Rafinesque. The best single source for their interpretation is Merrill's (1949) *Index Rafinesquianum*. Other publications that are especially significant with regard to plants originally described from Ohio specimens include the first author's studies of the plants named and described by Daniel Drake (Stuckey 1969) and Thomas Nuttall (Stuckey 1966, 1967), and his studies of the plants described by C.S. Kunth and E.G. von Steudel from specimens obtained in the Miami River valley by Joseph Frank (Stuckey 1974).

THE PLANTS AND THEIR TYPE LOCALITIES

OHIO

****Acalypha rhomboidea** Raf., New Fl. 1:45. 1836 [sometimes included in *Acalypha virginica* L., as var. *rhomboidea* (Raf.) Cooperr.].

Aesculus ohioensis Riddell, W.J. Med. Phys. Sci. 8:360. 1835. Reprint p. 34. 1835 [*Aesculus glabra* Willd.].

Cakile americana Nutt., Gen. N. Amer. Pl. 2:62. 1818 [*Cakile edentula* (Bigelow) Hook. subsp. *edentula*].

Carex laxiflora Lam. var. *latifolia* Boott, Ill. Carex p. 38, pl. 93. 1858 [*Carex albursina* E.Sheld.].

Carex alata Torr. var. *ferruginea* Fernald, Proc. Amer. Acad. Arts 37:477, pl. 2. 1902 [*Carex suberecta* (Olney) Britton].

****Carex comosa** Boott, Trans. Linn. Soc. London 20:117. 1846.

Carex davisii Schwein. & Torr. f. *glabrescens* Kük. in Engl., Pflanzenr. 4(20):588. 1909.

Carex foenea Willd. var. β Boott, Ill. Carex p. 118, pl. 376. 1862 [*Carex suberecta* (Olney) Britton].

Carex foenea Willd. var. *ferruginea* A.Gray, Manual, ed. 5, p. 580. 1867 [*Carex suberecta* (Olney) Britton].

Carex laxiflora Lam. var. *blanda* (Dewey) Boott subvar. *gracillima* Boott, Ill. Carex p. 38, pl. 91, fig. 2. 1858 [*Carex gracilescens* Steud.].

***Carex monile** Tuck., Enum. Meth. Caric. p. 20. 1843 [*Carex vesicaria* L. var. *monile* (Tuck.) Fernald].

***Carex tenera** Dewey var. *suberecta* Olney, Carices Bor.-Amer. 3:1871 [*Carex suberecta* (Olney) Britton].

Crataegus ridgwayi Sarg., J. Arnold Arbor. 6:2. 1925 [*Crataegus mollis* (Torr. & A.Gray) Scheele].

***Cyanotris scilloides** Raf., Amer. Monthly Mag. & Crit. Rev. 3:356. 1818 [*Camassia sciloides* (Raf.) Cory].

****Eleocharis erythropoda** Steud., Syn. Pl. Glumac. 2:76. 1854 [long known as *Eleocharis calva* Torr., an invalid name].

Eriophorum gracile W.D.J.Koch ex Roth [var.] β *paucinervium* Engelm., Amer. J. Sci. Arts 46:103. 1844 [*Eriophorum tenellum* Nutt.].

***Eriophorum latifolium** Hoppe [var.] β *viridicarinatum* Engelm., Amer. J. Sci. Arts 46:103. 1844, "*viridi-carinatum*" [*Eriophorum viridicarinatum* (Engelm.) Fernald].

****Euphorbia commutata** Engelm. ex A.Gray, Manual, ed. 2., p. 389. 1856.

Fimbristylis frankii Steud., Syn. Pl. Glumac. 2:111. 1855 [*Fimbristylis autumnalis* (L.) Roem. & Schult.].

***Hedysarum pauciflorum** Nutt., Gen. N. Amer. Pl. 2:109. 1818 [*Desmodium pauciflorum* (Nutt.) DC.].

****Helianthus microcephalus** Torr. & A.Gray, Fl. N. Amer. 2:329. 1842.

Hydrophyllum hispidum Riddell, W.J. Med. Phys. Sci. 8:516. 1835. Reprint p. 84. 1835 [*Hydrophyllum macrophyllum* Nutt.].

****Juncus brachycarpus** Engelm., Trans. Acad. Sci. St. Louis 2:467. 1868.

***Juncus canadensis** J.Gay var. *brachycephalus* Engelm., Trans. Acad. Sci. St. Louis 2:474. 1868 [*Juncus brachycephalus* (Engelm.) Buchenau].

Lysimachia revoluta Nutt., Gen. N. Amer. Pl. 1:122. 1818 [*Lysimachia quadriflora* Sims].

****Poa sylvestris** A.Gray, Manual, ed. 1, p. 596. 1848.

Scutellaria ambigua Nutt., Gen. N. Amer. Pl. 2:37. 1818 [*Scutellaria nervosa* Pursh].

Scutellaria versicolor Nutt., Gen. N. Amer. Pl. 2:38. 1818 [*Scutellaria ovata* Hill subsp. *ovata*].

****Stachys cordata** Riddell, W.J. Med. Phys. Sci. 9:579. 1836. Reprint p. 15. 1836 [often called *Stachys nuttallii* Shuttlew. ex Benth. in recent literature, but no valid reason exists to reject the name *S. cordata* Riddell].

***Tetraneuris herbacea** Greene, Pittonia 3:368. 1898 [now usually treated as *Hymenoxys herbacea* (Greene) Cusick, but sometimes retained in *Tetraneuris*].

****Tradescantia ohioensis** Raf., Précis Découv. Somiol. p. 45. 1814; see also New Fl. N. Amer. 2:84. 1836 [1837].

Vernonia altissima Nutt., Gen. N. Amer. Pl. 2:134. 1818 [*Vernonia gigantea* (Walter) Trel. subsp. *gigantea*].

LAKE ERIE, SHORE OF (Probably at Sandusky, Erie County)

Aesculus muricata Raf., Alsogr. Amer. p. 68. 1838 [*Aesculus glabra* Willd.].

Asclepias dasypus Raf., Atlantic J. 1:152. 1832 [*Asclepias purpurascens* L.].

Asclepias rotundifolia Raf., Atlantic J. 1:152. 1832, not Mill. 1768 [*Asclepias amplexicaulis* J.E.Sm.].

Caprifolium dentatum Raf., Atlantic J. 1:151. 1832 [*Lonicera dioica* L.].

Cornus punctata Raf., Alsogr. Amer. p. 62. 1838 [*Cornus alternifolia* L.].

Cornus suffruticosa Raf., Atlantic J. 1:151. 1832; Alsogr. Amer. p. 61. 1838.

Fragaria elatior Raf., Atlantic J. 1:152. 1832, not Ehrh. 1792 nor Wight & Arn. 1834.

Fragaria serotina Raf., Atlantic J. 1:152. 1832.

Lathyrus incurvus Raf., Atlantic J. 1:151. 1832, not Roth 1787 nor Willd. 1802 nor Rchb. 1832.

Lobelia falcata Raf., New Fl. 2:18. 1836 [1837] [*Lobelia kalmii* L.].

Lonicera eriensis Raf., New Fl. 3:18-19. 1836 [1838] [?*Lonicera hirsuta* Eaton].

Lysimachia sessilifolia Raf., Atlantic J. 1:151. 1832 [*Lysimachia quadriflora* Sims].

Mentha traxigona Raf., Autik. Bot. p. 114. 1840.

Samolus petiolatus Raf., Herb. Raf. p. 41. 1833 [*Samolus valerandi* L. subsp. *paviflorus* (Raf.) Hultén].

Trillium brevipetalum Raf., Med. Fl. 2:100. 1830; Autik. Bot. p. 134. 1840 [*Trillium flexipes* Raf.].

Trillium rotundifolium Raf., Med. Fl. 2:97. 1830 [*Trillium erectum* L.].

Viola eriocarpa Raf., Atlantic J. 1:152. 1832 [nomenclaturally distinct from *Viola eriocarpa* Schwein. (1822), although probably taxonomically equivalent].

MIAMI VALLEY; MIAMI COUNTRY

**Ampelopsis quinquefolia* Michx. var. *vitacea* Knerr, Bot. Gaz. 18:70. 1893 [*Parthenocissus vitacea* (Knerr) Hitchc.].

Convolvulus micranthus Riddell, W.J. Med. Phys. Sci. 8:502. 1835. Reprint p. 70. 1835, not Roem. & Schult. 1819 nor Willd. ex Spreng. 1824 [*Ipomoea lacunosa* L.].

Carex flaccidula Steud., Syn. Pl. Glumac. 2:199. 1855 [*Carex rosea* Schkuhr ex Willd.].

***Carex gracilescens* Steud., Syn. Pl. Glumac. 2:226. 1855. 1849.

Carex steudelii Kunth, Enum. Pl. 2:480. 1837 [*Carex jamesii* Schwein.].

Eragrostis cognata Steud., Syn. Pl. Glumac. 1:273. 1854 [*Eragrostis pectinacea* (Michx.) Nees ex Steud.].

***Eragrostis frankii* C.A.Mey. ex Steud., Syn. Pl. Glumac. 1:273. 1854.

Eragrostis unionis Steud., Syn. Pl. Glumac. 1:273. 1854 [*Eragrostis pectinacea* (Michx.) Nees ex Steud.].

Valerianella triquetra Hochst. & Steud. ex Shuttlew., Flora 20:211. 1837 [*Valerianella chenopodiifolia* (Pursh) DC.].

OHIO RIVER

Asplenium angustifolium Michx., Fl. Bor.-Amer. 2:265. 1803 [*Diplazium pycnocarpon* (Spreng.) M.Broun].

Discovium gracile Raf., J. Phys. Chim. Hist. Nat. Arts 89:96. 1819 [?*Lesquerella globosa* (Desv.) S.Watson].

Eupatorium longipes Raf., Atlantic J. 1:17. 1832.

Eupatorium pectinatum Raf., Atlantic J. 1:17. 1832, not Wall. 1831 nor Small 1903.

Euphorbia thymifolia Michx., Fl. Bor.-Amer. 2:212. 1803, not L. 1753 [*Chamaesyce maculata* (L.) Small; sometimes retained in *Euphorbia*, as *E. maculata* L.].

Hibiscus hastatus Michx., Fl. Bor.-Amer. 2:45. 1803, not L.f. 1781 nor Cav. 1787 [*Hibiscus laevis* All.].

Ilysanthes riparia Raf., Ann. Nat. 1:13. 1820 [*Lindernia dubia* (L.) Pennell var. *dubia*].

Lithospermum angustifolium Michx., Fl. Bor.-Amer. 1:130. 1803, not Forssk. 1775 nor Sessé & Moç. 1893 [*Lithospermum incisum* Lehm.].

Planera gmelinii Michx., Fl. Bor.-Amer. 2:248. 1803, "*gmelini*" [*Planera aquatica* (Walter) J.F.Gmel.].

Podalyria coerulea Michx., Fl. Bor.-Amer. 1:264. 1803 [*Baptisia australis* (L.) R.Br. ex W.T.Aiton var. *australis*].

***Polygonum amphibium* L. [var.] β *emersum* Michx., Fl. Bor.-Amer. 1:240. 1803.

Potamogeton natans L. [var.] β Michx., Fl. Bor.-Amer. 1:101. 1803 [*Potamogeton epihydrus* Raf.].

***Potentilla paradoxa* Nutt. in Torr. & A.Gray, Fl. N. Amer. 1:437. 1840, not Schur ex Nyman 1878.

Scutellaria radicata Raf., Atlantic J. 1:16. 1832.

***Spermacoce glabra* Michx., Fl. Bor.-Amer. 1:82. 1803, not Roxb. 1820 nor Sessé & Moç. 1888.

Tilia fulva Raf., Alsogr. Amer. 45. 1838 [*Tilia americana* L.].

Vitis odoratissima Donn var. *atropurpurea* Raf., Med. Fl. 2:132. 1830.

****Vitis riparia** Michx., Fl. Bor.-Amer. 2:231. 1803.

ADAMS COUNTY

01. Beaver Pond: ****Asplenium ×inexpectatus** E.L.Braun ex C.V.Morton, Amer. Fern J. 46:152. "1956" [1957]. [= *Asplenium cryptolepis* Fernald × *A. rhizophyllum* (L.) Link; earlier binomial ×*Asplenosorus inexpectatus* E.L.Braun ex Friesner, Butler Univ. Bot. Stud. 4:154. 1940 was not validly published].

02. Prairie, north part of Jefferson Township, southeast of Scrub Ridge, 2 1/2 miles north of Ohio Route 348: ****Silphium terebinthinaceum** Jacq. var. *lucy-brauniae* Steyerm., Rhodora 53:133–135. 1951.

BUTLER COUNTY

03. Old prairie near Hamilton: *Amaranthus altissimus* Riddell, W.J. Med. Phys. Sci. 8:367. 1835. Reprint p. 41. 1835 [*Amaranthus tuberculatus* (Moq.) J.D.Sauer].

04. Small prairie half a mile south of Middletown: *Euphorbia herronii* Riddell, W.J. Med. Phys. Sci. 8:58. 1835. Reprint p. 32. 1835 [*Euphorbia dentata* Michx.].

CHAMPAIGN COUNTY

05. Cedar Swamp [now Cedar Bog], Urbana: ***Valeriana ciliata** Torr. & A.Gray, Fl. N. Amer. 2:49. 1841 [*Valeriana edulis* Nutt. ex Torr. & A.Gray var. *ciliata* (Torr. & A.Gray) Cronquist].

CLARK COUNTY

06. Near Springfield: ***Valeriana ciliata** Torr. & A.Gray, Fl. N. Amer. 2:49. 1841 [*Valeriana edulis* Nutt. ex Torr. & A.Gray var. *ciliata* Cronquist].

COSHOCTON COUNTY

07. North Appalachian Experimental Watershed, near Fresno, Chili, and Canal Lewisville:

Aralia spinosa L. f. *subinermis* Moldenke, Castanea 9:54. 1944.

Daucus carota L. f. *fischeri* Moldenke, Castanea 9:55. 1944.

Daucus carota L. f. *goodmanii* Moldenke, Castanea 9:55. 1944, "*goodmani*."

Lobelia inflata L. f. *albiflora* Moldenke, Castanea 9:65. 1944.

Lycopodium flabelliforme (Fernald) Blanch. f. *clutei* Moldenke, Castanea 9:32. 1944. [*Diphasiastrum digitatum* (A.Braun) Holub].

Morus alba L. f. *nigrobacca* Moldenke, Castanea 9:51. 1944.

Plantago rugelii Decne. f. *fasciculata* Moldenke, Castanea 9:65. 1944.

Tovara virginiana (L.) Raf. f. *rubra* Moldenke, Boissiera 7:4. 1943; see also Castanea 9:40. 1944 [*Polygonum virginiana* L.]. Although one might infer otherwise from Moldenke's paper in Castanea, this and the following two names were validly published in Boissiera.

Tracaulon sagittatum (L.) Small f. *subalbidum* Moldenke, Castanea 9:41. 1944 [*Polygonum sagittatum* L.].

Trifolium pratense L. f. *lilacinum* Moldenke, Boissiera 7:4–5. 1943; see also Castanea 9:49. 1944.

Vernonia altissima Nutt. f. *alba* Moldenke, Boissiera 7:5. 1943; see also Castanea 9:64. 1944 [*Vernonia gigantea* (Walter) Trel. subsp. *gigantea*].

08. Roscoe: *Stachys glabra* Riddell, W.J. Med. Phys. Sci. 9:580. 1836. Reprint p. 16. 1836 [*Stachys tenuifolia* Willd.].

CUYAHOGA COUNTY

09. Cuyahoga: *Hieracium watsonianum* Gand., Bull. Soc. Bot. France 65:49. 1918.

10. Parma: *Hieracium ohioense* Gand., Bull. Soc. Bot. France 65:48. 1918.

11. Rocky River, deep gorge about one-fourth mile from Lake Erie: *Cerastium arvense* L. var. *webbii* Jennings, Ohio Naturalist 9:441. 1909; see also Ohio Naturalist 10:136. 1910 [*Cerastium arvense* L. subsp. *velutinum* (Raf.) Ugbor. var. *velutinum*.]

DELAWARE COUNTY

12. Delaware: *Crataegus ellipticifolia* Sarg., J. Arnold Arbor. 3:194. 1922 [*Crataegus compacta* Sarg.].

ERIE COUNTY

13. Kelleys Island, bottom of deep northwest quarry by glacial grooves, N portion of Kelleys Island, Lake Erie: ****Juncus ×stuckeyi** M.Reinking, Brittonia 33:175. 1976 [= *Juncus alpinoarticulatus* Chaix × *J. torreyi* Coville].

14. Cedar Point: ***Helianthus luxurians** E.Watson, Pap. Michigan Acad. Sci. 9:464. 1929 [*Helianthus ×luxurians* E.Watson; pro sp.; = *H. giganteus* L. × *H. grosseserratus* M.Martens].

15. Huron River at mouth: *Phalangium esculentum* Nutt., Gen. N. Amer. Pl. 1:219. 1818 [*Camassia scilloides* (Raf.) Cory].

16. Milan: *Crataegus propinqua* Ashe, J. Elisha Mitchell Sci. Soc. 20:53–54. 1904 [*Crataegus iracunda* Beadle].

17. Oxford Prairie: *Solidago moseleyi* Fernald, Rhodora 10:93. 1908 [*Euthamia gymnospermoides* Greene; often included in *Solidago*, as *S. gymnospermoides* (Greene) Fernald].

Thalictrum moseleyi Greene, Amer. Midl. Naturalist 2:294. 1912 [*Thalictrum dasycarpum* Fischer & Avé-Lall.].

18. Sandusky: *Crataegus marcida* Ashe, J. Elisha Mitchell Sci. Soc. 20:53. 1904 [*Crataegus iracunda* Beadle].

Crataegus tenera Ashe, J. Elisha Mitchell Sci. Soc. 20:52–53. 1904 [*Crataegus macrosperma* Ashe].

19. Sandusky Bay: *Vicia douglassii* Torr., Amer. J. Sci. 4:66. 1822 [?*Vicia cracca* L.].

FAIRFIELD COUNTY

20. Sugar Grove: *Crataegus polybracteata* Ashe, J. Elisha Mitchell Sci. Soc. 16:79. 1899; see also E.J.Palmer, J. Arnold Arbor. 6:57. 1925 [*Crataegus intricata* Lange].

21. Clearport; T.12N, R.19W, sec. 10, 1.5 miles east of Clearport on the south side of County Highway 69, east of the covered bridge over Clear Creek: ***Cystopteris ×wagneri* R.C. Moran, Castanea 48:224. 1983 [= *Cystopteris tennesseensis* Shaver × *C. tenuis* (Michx.) Desv.].

FRANKLIN COUNTY

22. Bexley: *Triphora trianthophora* (Sw.) Rydb. var. *schaffneri* Camp, Rhodora 42:55. 1940.

23. Columbus: ***Asclepias sullivantii* Engelm. ex A.Gray, Manual, ed. 1, 366. 1848.

Aster laxifolius Nees [var.] β *laetiflorus* Torr. & A.Gray, Fl. N. Amer. 2:138. 1841 [*Aster borealis* (Torr. & A.Gray) Prov.; sometimes segregated from *Aster* as *Symphyotrichum boreale* Torr. & A.Gray) A.Löve & D.Löve].

***Carex conjuncta* Boott, Ill. Carex 3:122, pl. 392. 1862.

**Carex sullivantii* Boott in A.Gray, Amer. J. Sci. 42:29. 1842 [*Carex ×sullivantii* Boott, pro sp.; = *Carex hirtifolia* Mack. × *C. gracillima* Schwein.].

Crataegus ohioensis Sarg., J. Arnold Arbor. 3:183. 1922 [*Crataegus arborea* Beadle].

Fedia patellaria Sull. ex A.Gray, Manual, ed. 1, 183. 1848 [*Valerianella umbilicata* (Sull.) Alph. Wood].

**Fedia umbilicata* Sull., Amer. J. Sci. 42:50. 1842 [*Valerianella umbilicata* (Sull.) Alph.Wood].

**Helianthus kellermanii* Britton, Man. Fl. N. States p. 994. 1901, "*kellermani*"; see also W.A. Kellerman, Ohio Naturalist 2:179–181. 1902 [*Helianthus ×kellermanii* Britton, pro sp.; = *Helianthus salicifolius* A.Dietr. × *H. grosseserratus* M.Martens].

**Rudbeckia sullivantii* C.L.Boynton & Beadle, Biltmore Bot. Stud. 1:15. 1901 [*Rudbeckia fulgida* Aiton var. *sullivantii* (C.L.Boynton & Beadle) Cronquist].

24. Columbus, cat-tail swamp, three miles west: **Coreopsis discoidea* Torr. & A.Gray, Fl. N. Amer. 2:339. 1842 [*Bidens discoidea* (Torr. & A.Gray) Britton].

25. Columbus, rocky limestone banks of the Scioto River: ***Arabis patens* Sull., Amer. J. Sci. 42:49. 1842, not Royle ex Hook.f. & Thomson 1861.

**Lonicera glaucescens* Rydb. var. *dasygyna* Rehder, Annual Rep. Missouri Bot. Gard. 14:181. 1903 [*Lonicera dioica* L. var. *dasygyna* (Rehder) Gleason].

Lonicera flava Sims var. β Torr. & A.Gray, Fl. N. Amer. 2:6. 1841 [*Lonicera reticulata* Raf.].

Lonicera parviflora Lam. [var.] β? [sic] *sullivantii* Alph.Wood, Class-book Bot., ed. 2, p. 298. 1847. Based on the Ohio component of *Lonicera parviflora* var. β Hook. sensu Torr. & A.Gray, Fl. N. Amer. 2:7. 1841, but nomenclaturally distinct; type locality determined from Torrey and Gray [*Lonicera reticulata* Raf.].

26. Columbus, two miles south: ***Solidago ohioensis* Riddell, W.J. Med. Phys. Sci. 8:497. 1835. Reprint p. 57. 1835 [sometimes segregated from *Solidago* as *Oligoneuron ohioense* (Riddell) G.N.Jones].

27. Dublin, calcareous ravine and steep declivity on the Scioto River: *Prenanthes proteophylla* Riddell, W.J. Med. Phys. Sci. 8:490. 1835. Reprint p. 50. 1835 [*Prenanthes alba* L.].

***Trillium nivale* Riddell, W.J. Med. Phys. Sci. 8:525. 1835. Reprint p. 93. 1835.

28. Between Flint and Glenmary: *Crataegus franklinensis* Sarg., J. Arnold Arbor. 4:100. 1923 [*Crataegus dissona* Sarg.].

29. Scott's Plains, 12 miles east from Worthington: ***Solidago riddellii* Frank in Riddell, W.J. Med. Phys. Sci. 8:497. 1835. Reprint p. 57. 1835 [sometimes segregated from *Solidago* as *Oligoneuron riddellii* (Frank) Rydb.]. Riddell probably should have written west instead of east, because of the prairie habitat in that area west of Worthington, rather than in the forest east of Worthington (R.L.S.).

30. Worthington: *Aster carneus* Nees var. *ambiguus* Torr. & A.Gray, Fl. N. Amer. 2:133. 1841 [*Aster lanceolatus* Willd. var. *interior* (Wiegand) Semple & Chmiel.; sometimes segregated from *Aster* as *Symphyotrichum lanceolatum* subsp. *lanceolatum* var. *interior* (Wiegand) G.L.Nesom].

***Aster oolentangiensis* Riddell, W.J. Med. Phys. Sci. 8: 495. 1835. Reprint p. 55. 1835 sometimes segregated from *Aster* as *Symphyotrichum oolentangiense* (Riddell) G.L.Nesom].

Prenanthes parviflora Riddell, W.J. Med. Phys. Sci. 8:490. 1835. Reprint p. 50 [*Prenanthes altissima* L.].

Stachys glabra Riddell, W.J. Med. Phys. Sci. 9: 580. 1836. Reprint p. 16. 1836 [*Stachys tenuifolia* Willd.].

GALLIA COUNTY

31. Gallipolis: *Crataegus horseyi* E.J.Palmer, Ohio J. Sci. 56:211–212. 1956 [*Crataegus intricata* Lange].

32. Gallipolis, banks of the Ohio River: ***Collinsia verna* Nutt., J. Acad. Nat. Sci. Philadelphia 1:190. 1817.

Discovium ohioense Raf., Autik. Bot. 17. 1840 [?*Lesquerella globosa* (Desv.) S.Watson].

GREENE COUNTY

33. Hoffman's Prairie, eight miles east from Dayton: *Amaranthus miamiensis* Riddell, W.J. Med. Phys. Sci. 8:367. 1835. Reprint p. 41. 1835 [*Amaranthus tuberculatus* (Moq.) J.D.Sauer].

***Solidago riddellii* Frank in Riddell, W.J. Med. Phys. Sci. 8: 497. 1835. Reprint p. 57. 1835. This locality is now referred to as the Wright Brothers Prairie or Wright Patterson Natural Area, which is located within the Wright Patterson Air Force Base east of Dayton, Ohio (Knoop, 2002).

34. Yellow Springs: *Asplenium cryptolepis* Fernald var. *ohionis* Fernald, Rhodora 30:43. 1928 [*Asplenium ruta-muraria* L., usually not recognized at the varietal level; when accepted, the correct epithet is in doubt as of this writing, but evidently would not be *ohionis*].

HAMILTON COUNTY

35. Cincinnati: *Aesculus maxima* D.Drake, Natural and Statistical View, or Picture of Cincinnati and the Miami Country ... p. 78. 1815 [1816] [*Aesculus flava* Aiton].

Enslenia albida Nutt., Gen. N. Amer. Pl. 1:164. 1818 [*Cynanchum laeve* (Michx.) Pers.].

***Erythronium albidum* Nutt., Gen. N. Amer. Pl. 1:223. 1818.

Synandra grandiflora Nutt., Gen. N. Amer. Pl. 2:29. 1818 [*Synandra hispidula* (Michx.) Baill.].

36. Three miles north of Cincinnati: **Quercus leana* Nutt., Sylva 1:13. 1849 [*Quercus ×leana* Nutt., pro sp.; = *Quercus imbricaria* Michx. × *Q. velutina* Lam.].

37. Near Terrace Park: ***Viola ×brauniae* Grover ex Cooperr., Michigan Bot. 25:108. 1986 [= *Viola rostrata* Pursh × *V. striata* Aiton].

HARDIN COUNTY

38. Mt. Victory: *Crataegus meiophylla* Sarg., J. Arnold Arbor. 3:198. 1922 [*Crataegus margaretta* Ashe].

HIGHLAND COUNTY

39. Rocky Fork Creek, 3/4 mile above junction with Paint Creek: **Saxifraga sullivantii* Torr. & A.Gray, Fl. N. Amer. 1:575. 1840; *Sullivantia ohionis* Torr. & A.Gray, Amer. J. Sci. 42:22. 1842, new name for same taxon [*Sullivantia sullivantii* (Torr. & A.Gray) Britton. This species is the type of the genus name *Sullivantia*, which was published in the same paper].

HOCKING COUNTY

40. Benton Township: Above Keifel Rd., 0.3 mi NE, jct of Big Pine Creek rd., Sect 7, Benton Township: **Lycopodium ×bartleyii* Cusick, Amer. Fern J. 77:100. 1987 [*Huperzia ×bartleyi* (Cusick) Kartesz & Gandhi; identified in original description by Cusick as *Lycopodium lucidulum* Michx. × *L. porophilum* F.E.Lloyd & Underw.; = *Huperzia lucidula* (Michx.) Trevis. × *H. porophila* (F.E.Lloyd & Underw.} Holub].

JACKSON COUNTY

41. Liberty Township, Ofer Hollow: **Calamagrostis insperata* Swallen, J. Wash. Acad. Sci.

25:413. 1935 [*Calamagrostis porteri* A.Gray subsp. *insperata* (Swallen) C.W. Greene].

LAKE COUNTY

42. Painesville: **Lonicera glaucescens* Rydb. var. *dasygyna* Rehder, Annual Rep. Missouri Bot. Gard. 14:181. 1903 [*Lonicera dioica* L. var. *dasygyna* (Rehder) Gleason].

Panicum werneri Scribn. ex Britton & A.Brown, Ill. Fl. N. U.S. 3:501 1898. [*Dichanthelium linearifolium* (Scribn. ex Britton & A.Brown) Gould; often retained in *Panicum*, as *P. linearifolium* Scribn. ex Britton & A.Brown].

Ribes cynosbati L. var. *glabratum* Fernald, Rhodora 7:156. 1905.

43. Richmond: **Helianthus brevifolius* E.Watson, Pap. Michigan Acad. Sci. 9:448. 1929 [*Helianthus ×brevifolius* E.Watson; pro sp.; = *Helianthus grosseserratus* M.Martens × *H. mollis* Lam.] .

LICKING COUNTY

44. Buckeye Lake, Cranberry Island: *Acer rubrum* L. var. *rubrocarpum* Detmers, "*rubro-carpum*," Ohio J. Sci. 19:236. 1919.

Acer rubrum L. var. *viride* Detmers, Ohio J. Sci. 19:235. 1919.

45. Granville: *Scutellaria ovata* Hill subsp. *pseudo-venosa* Epling, Univ. California Publ. Bot. 20:56. 1942 [*Scutellaria ovata* Hill subsp. *ovata*].

LORAIN COUNTY

46. Oberlin: *Ribes cynosbati* L. var. *glabratum* Fernald, Rhodora 7:156. 1905; see also O.E. Jennings, Ohio Nat. 6:492–495. 1906.

47. Alson, Vermillion River: *Aloitis foliosa* Greene, Leafl. Bot. Obs. & Crit. 1:94. 1904 [*Gentianella quinquefolia* (L.) Small subsp. *occidentalis* (A.Gray) J.M.Gillett].

LUCAS COUNTY

48. Toledo: *Staphylea brighamii* J.F.Macbr., Rhodora 20:129. 1918 [*Staphylea trifolia* L.].

MADISON COUNTY

49. Darby Plains, 15 miles west of Columbus: ***Eleocharis compressa* Sull., Amer. J. Sci. Arts 42:49. 1842.

Helianthus cinereus Torr. & A.Gray var. *sullivantii* Torr. & A.Gray, Fl. N. Amer. 2:234. 1842 [*Helianthus ×cinereus* Torr. & A.Gray; pro sp.; = *Helianthus mollis* L. × *H. occidentalis* Riddell].

MEIGS COUNTY

50. North of Dexter; sandstone exposures on mesic slop above Leading Creek, Co. Rt 10, 0.25 mi (0.02 km) SW of Twp Rt 27, Sec. 6, Salem Twp: *Polypodium ×incognitum* Cusick, Amer. Fern J. 92:241. 2002 [= *Polypodium appalachianum* Hauffler & Windham × *P. virginianum* L.].

MONTGOMERY COUNTY

51. Dayton: *Prenanthes miamiensis* Riddell, W.J. Med. Phys. Sci. 8:490. 1835. Reprint p. 50. 1835 [*Prenanthes crepidinea* Michx.].

"Bushy Prairie, Dayton, O." *Prenanthes ovata* Riddell, W.J. Med. Phys. Sci. 8:490. Reprint p. 50. 1835 [*Prenanthes alba* L.].

52. Van Cleve's Prairie, Dayton: ***Solidago ohioensis* Riddell, W.J. Med. Phys. Sci. 8:497. 1835. Reprint p. 57. 1835 [sometimes segregated from *Solidago* as *Oligoneuron ohioense* (Riddell) G.N.Jones].

OTTAWA COUNTY

53. Catawba Island: *Persicaria laurina* Greene, Leafl. Bot. Observ. Crit. 1:35. 1904; see also O.E. Jennings, Ohio Naturalist 6:492–495. 1906.

54. South Bass Island: ***Polygonum pensylvanicum* L. var. *eglandulosum* J.C.Myers, Castanea 7:74. 1942.

Rubus corei L.H.Bailey in Core, Franz Theodore Stone Lab. Contrib. 9:70. 1948 [*Rubus alumnus* L.H.Bailey].

Rubus eriensis L.H.Bailey in Core, Franz Theodore Stone Lab. Contrib. 9:70. 1948 [*Rubus frondosus* Bigelow].

Rubus gordonii L.H.Bailey in Core, Franz Theodore Stone Lab. Contrib. 9:70. 1948 [*Rubus deamii* L.H.Bailey].

PORTAGE COUNTY

55. Garrettsville: *Crataegus marcida* Ashe, J. Elisha Mitchell Sci. Soc. 20:53. 1904 [*Crataegus iracunda* Beadle].

56. Windham: *Athyrium angustum* (Willd.) C.Presl var. *cristatum* Hopkins, Amer. Fern J. 9:86. 1919 [*Athyrium filix-femina* L. var. *angustum* (Willd.) G.Lawson; sometimes treated as *A. angustum* (Willd.) C.Presl].

57. Woodworth's Glen: *Cystopteris fragilis* (L.) Bernh. var. *cristata* Hopkins, Ohio Nat. 10:181. 1910, not E.J.Lowe 1869 [*Cystopteris tenuis* (Michx.) Desv.].

RICHLAND COUNTY

58. Mansfield: *Crataegus decens* Ashe, J. Elisha Mitchell Sci. Soc. 19:19. 190 [*Crataegus lucorum* Sarg.].

Crataegus habilis Ashe, Bot. Gaz. 35:435. 1903.

***Crataegus indicens* Ashe, J. Elisha Mitchell Sci. Soc. 19:27. 1903.

Crataegus mansfieldensis Sarg., J. Arnold Arbor. 4:103. 1923 [*Crataegus irrasa* Sarg.].

Crataegus onusta Ashe, J. Elisha Mitchell Sci. Soc. 19:22. 1903 [*Crataegus pruinosa* (H.L.Wendl.) K.Koch].

Crataegus prona Ashe, J. Elisha Mitchell Sci. Soc. 19:17. 1903 [*Crataegus macrosperma* Ashe].

Crataegus wilkinsonii Ashe, Bot. Gaz. 35:435. 1903, "*wilkinsoni*" [*Crataegus crus-galli* L.].

Thalictrum amabile Greene, Amer. Midl. Naturalist 2:294. 1912 [*Thalictrum revolutum* DC.].

ROSS COUNTY

59. Chillicothe, three miles southwest: ***Scutellaria saxatilis* Riddell, W.J. Med. Phys. Sci. 9:578. 1836. Reprint p. 14. 1835.

SCIOTO COUNTY

60. Portsmouth, banks of the Scioto River: *Enslenia albida* Nutt., Gen. N. Amer. Pl. 1:164. 1818 [*Cynanchum laeve* (Michx.) Pers.].

Scutellaria canescens Nutt., Gen. N. Amer. Pl. 2:38. 1818 [*Scutellaria incana* Biehler].

61. Junction of the Ohio River and Scioto River: *Eupatorium falcatum* Michx., Fl. Bor. Amer. 2:99. 1803 [*Eupatorium purpureum* L. var. *purpureum*; sometimes placed in *Eupatoriadelphus*, as *E. purpureum* (L.) R.M.King & H.Rob.].

***Kyllingia pumila* Michx., Fl. Bor.-Amer. 1:28. 1803 [sometimes placed in *Cyperus*, as *C. tenuifolius* (Steud.) Dandy].

TRUMBULL COUNTY

62. Leavittsburg: *Crataegus marcida* Ashe, J. Elisha Mitchell Sci. Soc. 20:53. 1904) [*Crataegus iracunda* Beadle].

TUSCARAWAS COUNTY

63. Dennison: *Crataegus kellermanii* Sarg., Trees & Shrubs 2:239. 1913 [*Crataegus suborbiculata* Sarg.].

64. Dover: *Habenaria retusa* Riddell, W.J. Med. Phys. Sci. 9:581. 1836. Reprint p. 17. 1836, not Rodrigues 1882.

***Helianthus occidentalis* Riddell, W.J. Med. Phys. Sci. 9:577. 1836. Reprint p. 13. 1836.

***Linum sulcatum* Riddell, W.J. Med. Phys. Sci. 9:574. 1836. Reprint p. 10. 1836.

65. Near Muskingum River [= Tuscarawas River, probably near Gnadenhutten]: ***Carex muskingumensis* Schwein., Ann. Lyceum Nat. Hist. New York 1:66. 1824; 1:312. 1825.

WARREN COUNTY

66. [South] Lebanon: **Seymeria macrophylla* Nutt., Gen. N. Amer. Pl. 2:49. 1818 [*Dasistoma macrophylla* (Nutt.) Raf.].

WASHINGTON COUNTY

67. Marietta: *Crataegus mariettensis* Sarg., J. Arnold Arbor. 3:194. 1922 [*Crataegus dissona* Sarg.].

Crataegus putnamiana Sarg., J. Arnold Arbor. 4:102. 1923 [*Crataegus chrysocarpa* Ashe].

Stylophorum petiolatum Nutt., Gen. N. Amer. Pl. 2:8. 1818 [*Stylophorum diphyllum* (Michx.) Nutt.].

68. Bank of the Muskingum River at Marietta: *Justicia pendunculosa* Michx., Fl. Bor.-Amer. 1:7. 1803; see also Proc. Amer. Philos. Soc. 26:94. 1889 [*Justicia americana* (L.) Vahl].

WAYNE COUNTY

69. Rocky wooded hillsides: *Adiantum pedatum* L. var. *laciniatum* Hopkins, Ohio Naturalist 10:180. 1910.

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